1   1. (Currently amended) A method for obtaining a current value of a Management Information

2   base (MIB) variable stored in a ~~managed network device~~ in a network packet router,

3   the method comprising the steps of:

4   receiving a connection of a Web browser to a ~~first managed network device~~ network

5   packet router;

6   receiving at the ~~first managed network device~~ network packet router an HTTP request

7   message from the browser to obtain the current value of the MIB variable

8   from the ~~first managed network device~~ network packet router to which the

9   MIB variable value pertains;

10   receiving the current value of the MIB variable from the MIB of the ~~first managed~~

11   ~~network device~~ network packet router to which the MIB variable value

12   pertains; and

13   communicating the current value of the MIB variable from the ~~first managed network~~

14   ~~device~~ network packet router to which the MIB variable value pertains to the

15   browser using an HTTP reply message.

1   2.   (Currently amended) The method of claim 1, further comprising the steps of:

2   creating and storing a MIB object tree in a memory of the ~~first managed network~~

3   ~~device~~ network packet router;

4   creating an electronic document that contains a representation of one or more MIB

5   variables of the MIB object tree;

6   communicating the electronic document to the Web browser.

1   3.   (Currently amended) The method of claim 1, wherein the step of receiving the current

2   value of the MIB variable from the MIB of the ~~first managed network device~~ network

3   packet router includes the steps of creating and storing a MIB object tree in a memory

4   of the ~~first managed network device~~ network packet router ; obtaining the MIB

5   variable from the MIB object tree in the memory of the ~~first managed network device~~

6   network packet router.

1   4.   (Currently amended) The method of claim 1, further comprising the steps of:

2   creating and storing a MIB object tree in a memory of the ~~first managed network~~

3   ~~device~~ network packet router;

4   creating an electronic document that contains a representation of one or more MIB

5   variables of the MIB object tree;

6   receiving a user selection of one of the MIB variables based on the electronic

7   document;

8   wherein the step of receiving the current value of the MIB variable from the MIB of

9   the ~~first managed network device~~ network packet router includes the step of

10   obtaining the MIB variable that is identified in the user selection from the

11   MIB object tree in the memory of the ~~first managed network device~~ network

12   packet router.

1   5.   (Currently amended) The method of claim 1, further comprising the steps of:

2   receiving the HTTP request message to obtain the current value of the MIB variable

3   at an HTTP-SNMP interface;

4   creating an SNMP query that requests a current value of the MIB variable based on

5   the HTTP request message; and

6   communicating the SNMP query to an SNMP daemon of the ~~first managed network~~

7   ~~device~~ network packet router.

1   6.   (Currently amended) The method of claim 1, further comprising the steps of:

2   communicating the current value of the MIB variable to the HTTP-SNMP interface;

3   creating and storing an HTML page that contains the current value of the MIB

4   variable; and

5   sending the HTML page to an HTTP daemon of the ~~first managed network device~~

6   network packet router.

1   7.   (Original) The method of claim 1, further comprising the step of creating and storing

2   an executable software element in association with the Web browser, wherein the

3   executable software element is configured for packaging an SNMP query into the

4   request from the Web browser.

1   8.   (Original) The method of claim 1, wherein the step of receiving a request from the

2   Web browser to obtain the current value of the MIB variable includes the step of

3   unpackaging an SNMP query that is packaged in the request from the Web browser to

4   identify the MIB variable.

1   9.   (Currently amended) The method of claim 8, further comprising the step of sending

2   the SNMP query to an SNMP daemon of the ~~first managed network device~~ network

3   packet router.

1   10.   (Original) The method of claim 8, wherein the step of returning the current value of

2   the MIB variable to the Web browser includes the step of repackaging the current

3   value of the MIB variable into an HTTP reply message.

1   11.   (Currently amended) A network device, comprising:

2   a processor;

3   a Management Information Base (MIB) logically accessible by the processor and

4   comprising one or more stored values of MIB variables;

5   a Simple Network Management Protocol (SNMP) daemon executed by the processor;

6   a Hypertext Transfer Protocol (HTTP) daemon executed by the processor;

7   stored instructions for obtaining a current value of a Management Information base

8   (MIB) variable stored in a ~~managed network device~~ network packet router

9   which, when executed by the processor, cause the processor to carry out the

10   steps of:

11   receiving a connection of a Web browser to ~~a first managed network device~~

12   the network packet router;

13   receiving at the ~~first managed network device~~ network packet router an HTTP

14   request message from the browser to obtain the current value of the

15   MIB variable from the ~~first managed network device~~ network packet

16   router to which the MIB variable value pertains;

17   receiving the current value of the MIB variable from the MIB of the ~~first~~

18   ~~managed network device~~ network packet router to which the MIB

19   variable value pertains; and

20   communicating the current value of the MIB variable from the ~~first managed~~

21   ~~network device~~ network packet router to which the MIB variable value

22   pertains to the browser using an HTTP reply message.

1 12. (Currently amended) The network device of claim 11, wherein the instructions further

2   cause the processor to carry out the steps of:

3   creating and storing a MIB object tree in a memory of the ~~first managed network~~

4   ~~device~~ network packet router;

5   creating an electronic document that contains a representation of one or more MIB

6   variables of the MIB object tree;

7   communicating the electronic document to the Web browser.

1 13. (Currently amended) The network device of claim 11, wherein the step of receiving

2   the current value of the MIB variable from the MIB of the ~~first managed network~~

3   ~~device~~ network packet router includes the steps of creating and storing a MIB object

4   tree in a memory of the ~~first managed network device~~ network packet router ;

5   obtaining the MIB variable from the MIB object tree in the memory of the ~~first~~

6   ~~managed network device~~ network packet router .

1 14. (Currently amended) The network device of claim 11, wherein the instructions further

2   cause the processor to carry out the steps of:

3   creating and storing a MIB object tree in a memory of the ~~first managed network~~

4   ~~device~~ network packet router ;

5   creating an electronic document that contains a representation of one or more MIB

6   variables of the MIB object tree;

7   receiving a user selection of one of the MIB variables based on the electronic

8   document;

9   wherein the step of receiving the current value of the MIB variable from the MIB of

10   the ~~first managed network device~~ network packet router includes the step of

11   obtaining the MIB variable that is identified in the user selection from the

12   MIB object tree in the memory of the ~~first managed network device~~ network

13   packet router.

1 15.   (Currently amended) The network device of claim 11, further comprising an HTTP-

2   SNMP interface which, when executed by the processor, causes the processor to carry

3   out the steps of:

4   receiving the HTTP request message to obtain the current value of the MIB variable

5   at an HTTP-SNMP interface;

6   creating an SNMP query that requests a current value of the MIB variable based on

7   the HTTP request message; and

8   communicating the SNMP query to an SNMP daemon of the ~~first managed network~~

9   ~~device~~ network packet router.

10 16.   (Previously presented) The network device of claim 11, further comprising the steps

11   of:

12   communicating the current value of the MIB variable to the HTTP-SNMP interface;

13   creating and storing an HTML page that contains the current value of the MIB

14   variable; and

15   sending the HTML page to the HTTP daemon.

1   17.   (Currently amended) A computer-readable medium carrying one or more sequences

2   of one or more instructions for obtaining a current value of a Management

3   Information base (MIB) variable stored in a ~~managed network device in a~~ network

4   <u>packet router</u>, the one or more sequences of one or more instructions including

5   instructions which, when executed by one or more processors, cause the one or more

6   processors to perform the steps of:

7   receiving a connection of a Web browser to a ~~first managed network device~~ <u>network</u>

8   <u>packet router</u>;

9   receiving at the ~~first managed network device~~ <u>network packet router</u> an HTTP request

10   message from the browser to obtain the current value of the MIB variable

11   from the ~~first managed network device~~ <u>network packet router</u> to which the

12   MIB variable value pertains;

13   receiving the current value of the MIB variable from the MIB of the ~~first managed~~

14   ~~network device~~ <u>network packet router</u> to which the MIB variable value

15   pertains; and

16   communicating the current value of the MIB variable from the ~~first managed network~~

17   ~~device~~ <u>network packet router</u> to which the MIB variable value pertains to the

18   browser using an HTTP reply message.

1 18. (Original) The computer-readable medium as recited in claim 17, wherein the

2 instructions further cause the processor to carry out the steps of:

3 creating and storing a MIB object tree;

4 creating an electronic document that contains a representation of one or more MIB

5 variables of the MIB object tree;

6 communicating the electronic document to the Web browser.

1 19. (Currently amended) The computer-readable medium as recited in claim 17, wherein

2 receiving the current value of the MIB variable from the MIB of the ~~first managed~~

3 ~~network device~~ network packet router includes the steps of creating and storing a

4 MIB object tree in a memory of the ~~first managed network device~~ network packet

5 router; obtaining the MIB variable from the MIB object tree in the memory of the

6 ~~first managed network device~~ network packet router.

1 20. (Currently amended) The computer-readable medium as recited in claim 17, wherein

2 the instructions further cause the processor to carry out the steps of:

3 creating and storing a MIB object tree in a memory of the ~~first managed network~~

4 ~~device~~ network packet router;

5 creating an electronic document that contains a representation of one or more MIB

6 variables of the MIB object tree;

7 receiving a user selection of one of the MIB variables based on the electronic

8 document;

9 wherein receiving the current value of the MIB variable from the MIB of the ~~first~~

10   ~~managed network device~~ <u>network packet router</u> includes the step of obtaining

11   the MIB variable that is identified in the user selection from the MIB object

12   tree in the memory of the ~~first managed network device~~ <u>network packet</u>

13   <u>router.</u>

1 21. (Currently amended) The computer-readable medium as recited in claim 17, wherein

2 the instructions further cause the processor to carry out the steps of:

3 receiving the HTTP request message to obtain the current value of the MIB variable

4   at an HTTP-SNMP interface;

5 creating an SNMP query that requests a current value of the MIB variable based on

6   the HTTP request message; and

7 communicating the SNMP query to an SNMP daemon of the ~~first managed network~~

8   ~~device~~ <u>network packet router.</u>

1 22. (Currently amended) The computer-readable medium as recited in claim 17, wherein

2 the instructions further cause the processor to carry out the steps of:

3 communicating the current value of the MIB variable to the HTTP-SNMP interface;

4 creating and storing an HTML page that contains the current value of the MIB

5   variable; and

6 sending the HTML page to an HTTP daemon of the ~~first managed network device~~

7   <u>network packet router.</u>

1 23. (Currently amended) An HTTP browser program including a plug-in executable

2   software element configured for obtaining a current value of a Management

3   Information Base (MIB) variable stored in a ~~managed network device in a~~ network

4   packet router and which, when executed by a processor that executes the browser,

5   causes the processor to carry out the steps of:

6   connecting the browser to the network ~~device~~ packet router;

7   translating an SNMP query to a HTTP request message;

8   communicating the HTTP request message from the browser to the network ~~device~~

9   packet router to obtain the current value of the MIB variable from the

10   ~~managed~~ network ~~device~~ packet router to which the MIB variable value

11   pertains;

12   receiving, in an HTTP reply message, the current value of the MIB variable from the

13   MIB of the network ~~device~~ packet router to which the MIB variable value

14   pertains; and

15   displaying the current value of the MIB variable using the browser.

1 24. (Currently amended) An applet executable in a browser program and configured for

2   obtaining a current value of a Management Information Base (MIB) variable stored in

3   a ~~managed~~ network ~~device~~ packet router in a network and which, when executed by

4   the browser, causes the browser to carry out the steps of:

5   connecting the browser to the network ~~device~~ packet router;

6   translating an SNMP query to a HTTP request message;

7   communicating the HTTP request message from the browser to the network ~~device~~

8   <u>packet router</u> to obtain the current value of the MIB variable from the

9   ~~managed~~ network ~~device~~ <u>packet router</u> to which the MIB variable value

10   pertains;

11   receiving, in an HTTP reply message, the current value of the MIB variable from the

12   MIB of the network ~~device~~ <u>packet router</u> to which the MIB variable value

13   pertains; and

14   displaying the current value of the MIB variable using the browser.

1   25.   (Previously presented) The network device of claim 11, wherein the step of receiving

2   a request from the Web browser to obtain the current value of the MIB variable

3   includes the step of unpackaging an SNMP query that is packaged in the request from

4   the Web browser to identify the MIB variable.

1   26.   (Currently amended) The network device of claim 25, wherein the instructions further

2   cause the processor to carry out the step of sending the SNMP query to an SNMP

3   daemon of the ~~first managed network device~~ <u>network packet router</u>.

1   27.   (Previously presented) The network device of claim 25, wherein the step of returning

2   the current value of the MIB variable to the Web browser includes the step of

3   repackaging the current value of the MIB variable into an HTTP reply message.

1   28.   (Previously presented) The computer-readable medium of claim 17, wherein the step

2   of receiving a request from the Web browser to obtain the current value of the MIB

3   variable includes the step of unpackaging an SNMP query that is packaged in the

4   request from the Web browser to identify the MIB variable.

1 29. (Currently amended) The computer-readable medium of claim 28, wherein the

2   instructions further cause the processor to carry out the step of sending the SNMP

3   query to an SNMP daemon of the ~~first managed network device~~ network packet

4   router.

1 30. (Previously presented) The computer-readable medium of claim 28, wherein the step

2   of returning the current value of the MIB variable to the Web browser includes the

3   step of repackaging the current value of the MIB variable into an HTTP reply

4   message.

1 31. (Currently amended) A system for obtaining a current value of a Management

2   Information base (MIB) variable stored in a ~~managed network device in a~~ network

3   packet router, the system comprising:

4   means for receiving a connection of a Web browser to a ~~first managed network device~~

5   network packet router;

6   means for receiving at the ~~first managed network device~~ network packet router an

7   HTTP request message from the browser to obtain the current value of the

8   MIB variable from the ~~first managed network device~~ network packet router to

9   which the MIB variable value pertains;

10   means for receiving the current value of the MIB variable from the MIB of the

11   network packet router to which the MIB variable value pertains; and

12   means for communicating the current value of the MIB variable from the ~~first~~

13   ~~managed network device~~ network packet router to which the MIB variable

14   value pertains to the browser using an HTTP reply message.

1   32.   (Currently amended) The system of claim 31, further comprising:

2   means for creating and storing a MIB object tree in a memory of the ~~first managed~~

3   ~~network device~~ network packet router;

4   means for creating an electronic document that contains a representation of one or

5   more MIB variables of the MIB object tree;

6   means for communicating the electronic document to the Web browser.

1   33.   (Currently amended) The system of claim 31, wherein the means for receiving the

2   current value of the MIB variable from the MIB of the ~~first managed network device~~

3   network packet router includes

4   means for creating and storing a MIB object tree in a memory of the ~~first managed~~

5   ~~network device~~ network packet router;

6   means for obtaining the MIB variable from the MIB object tree in the memory of the

7   ~~first managed network device~~ network packet router.

1   34.   (Currently amended) The system of claim 31, further comprising:

2   means for creating and storing a MIB object tree in a memory of the ~~first managed~~

3   ~~network device~~ network packet router;

4   means for creating an electronic document that contains a representation of one or

5   more MIB variables of the MIB object tree;

6 means for receiving a user selection of one of the MIB variables based on the

7   electronic document;

8 wherein the means for receiving the current value of the MIB variable from the MIB

9   of the ~~first managed network device~~ <u>network packet router</u> includes means for

10   obtaining the MIB variable that is identified in the user selection from the

11   MIB object tree in the memory of the ~~first managed network device~~ <u>network</u>

12   <u>packet router.</u>

1 35. (Currently amended) The system of claim 31, further comprising:

2 means for receiving the HTTP request message to obtain the current value of the MIB

3   variable at an HTTP-SNMP interface;

4 means for creating an SNMP query that requests a current value of the MIB variable

5   based on the HTTP request message; and

6 means for communicating the SNMP query to an SNMP daemon of the ~~first managed~~

7   ~~network device~~ <u>network packet router.</u>

1 36. (Currently amended) The system of claim 31, further comprising:

2 means for communicating the current value of the MIB variable to the HTTP-SNMP

3   interface;

4 means for creating and storing an HTML page that contains the current value of the

5   MIB variable; and

6 means for sending the HTML page to an HTTP daemon of the ~~first managed network~~

7   ~~device~~ <u>network packet router.</u>

1   37.   (Previously presented) The system of claim 31, further comprising:

2   means for creating and storing an executable software element in association with the

3   Web browser, wherein the executable software element is configured for

4   packaging an SNMP query into the request from the Web browser.

1   38.   (Previously presented) The system of claim 31, wherein the means for receiving a

2   request from the Web browser to obtain the current value of the MIB variable

3   includes means for unpackaging an SNMP query that is packaged in the request from

4·   the Web browser to identify the MIB variable.

1   39.   (Currently amended) The system of claim 38, further comprising means for sending

2   the SNMP query to an SNMP daemon of the ~~first managed network device~~ <u>network</u>

3   <u>packet router</u>.

1   40.   (Previously presented) The system of claim 38, wherein the means for returning the

2   current value of the MIB variable to the Web browser includes means for repackaging

3   the current value of the MIB variable into an HTTP reply message.

1   41   (New) The method of Claim 1, wherein the step of receiving a connection comprises

2   receiving a connection to an HTTP daemon in the network packet router, and wherein

3   the step of receiving an HTTP request message comprises receiving an HTTP request

4   message at the HTTP daemon.

1   42   (New) The network device of Claim 11, wherein the instructions cause the processor

2   to carry out the step of receiving a connection by receiving a connection to an HTTP

3   daemon in the network packet router and the step of receiving an HTTP request

4   message by receiving an HTTP request message at the HTTP daemon.

1   43   (New) The computer-readable medium of Claim 17, wherein the instructions cause

2   the one or more processors to perform the step of receiving a connection by receiving

3   a connection to an HTTP daemon in the network packet router and the step of

4   receiving an HTTP request message by receiving an HTTP request message at the

5   HTTP daemon.

1   44   (New) The system of Claim 31, wherein the means for receiving a connection

2   comprises means for receiving a connection to an HTTP daemon in the network

3   packet router, and wherein the means for receiving an HTTP request message

4   comprises means for receiving an HTTP request message at the HTTP daemon.